

D
08/31/04

5

10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145
150
155
160
165
170
175
180
185
190
195
200
205
210
215
220
225
230
235
240
245
250
255
260
265
270
275
280
285
290
295
300
305
310
315
320
325
330
335
340
345
350
355
360
365
370
375
380
385
390
395
400
405
410
415
420
425
430
435
440
445
450
455
460
465
470
475
480
485
490
495
500
505
510
515
520
525
530
535
540
545
550
555
560
565
570
575
580
585
590
595
600
605
610
615
620
625
630
635
640
645
650
655
660
665
670
675
680
685
690
695
700
705
710
715
720
725
730
735
740
745
750
755
760
765
770
775
780
785
790
795
800
805
810
815
820
825
830
835
840
845
850
855
860
865
870
875
880
885
890
895
900
905
910
915
920
925
930
935
940
945
950
955
960
965
970
975
980
985
990
995
1000

MULTISPOUT FLASK

WITH PUMP

of U.S. Application Serial No. 09/770,921, filed January 26, 2001, now abandoned.

This application is a continuation in part of provisional application 60/178,802

filed January 28, 2000.

which claims priority from

BACKGROUND

Field: This invention relates to portable fluid carrying bottles or flasks used to

carry liquids and more specifically to flexible bottles or flasks that are suitable for

attachment to the person for carrying liquids including drinking liquids, beverages and

soup-like foods and even more specifically to flexible flasks that have an associated pump

for urging fluids therefrom.

State of the Art: Many different styles and types of bottles or flasks are available

to transport fluids and, more specifically, liquids such as water or some other similar

liquid as well as foods like soups, beverages and the like. Solid insulated bottles or

containers typically have some form of glass or glass-like container within a housing and

as a result are not flexible and may be regarded as heavy. Such solid insulated bottles or

containers are generally viewed to not be well suited for use by cyclists, hikers, cross

country skiers and others who are involved in similar outdoor activity and who are

transporting fluids on their person directly or by attachment to some other structure being

carried or moved by them.

Some plastic bottles are solid but flexible so they can be squeezed by the hand of the user to urge fluids out. Some versions have a push-pull valve for insertion into the